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     12 APR 04 EPFULL enhanced with additional patent information and new
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                based on application date in CA/Caplus and USPATFULL/USPAT2
                may be affected by a change in filing date for U.S.
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                Improved searching of U.S. Patent Classifications for
NEWS
     16 APR 28
                U.S. patent records in CA/CAplus
     17 MAY 23
                GBFULL enhanced with patent drawing images
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                CHEMCATS
     19 JUN 06 STN Patent Forums to be held in June 2005
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NEWS 20 JUN 06 The Analysis Edition of STN Express with Discover!
                 (Version 8.0 for Windows) now available
                RUSSIAPAT: New full-text patent database on STN
     21 JUN 13
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                MEDICONF to be removed from STN
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             MACINTOSH VERSION IS V6.0c(ENG) AND V6.0Jc(JP),
             AND CURRENT DISCOVER FILE IS DATED 13 JUNE 2005
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Experimental and calculated property data are now available. For more information enter HELP PROP at an arrow prompt in the file or refer to the file summary sheet on the web at: http://www.cas.org/ONLINE/DBSS/registryss.html

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     (9CI) (CA INDEX NAME)
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               1 REFERENCES IN FILE CAPLUS (1907 TO DATE)
REFERENCE 1
AN
     123:63362 CA
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 ${\tt TI}$ Alloys and dispersion composites for coating resistant to hot corrosion and oxidation in gas-turbine service

IN Bettridge, David Frederick; Taylor, Thomas Alan; Tucker, Robert Clark, Jr.

PA Rolls-Royce PLC, UK; Praxair Inc.

SO Eur. Pat. Appl., 19 pp. CODEN: EPXXDW

DT Patent

LA English

IC ICM C23C004-06

RRK. G-24-05

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ICS C23C030-00; C23C004-18
     56-3 (Nonferrous Metals and Alloys)
     Section cross-reference(s): 57
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     The MCrAlY-type alloys suitable for spray coating (as well as for
AB
     composites with oxide dispersion) contain M (as Fe, Co, and/or Ni)
     nominally at 19-83, Cr 10-50, Al 4-14, Y (and optionally Hf) 0.1-3, and
     optionally addnl. Ta, Re, and/or Pt at 3-14 weight%. The alloys are
     preferably used as composite with an oxide dispersion (especially Al2O3) at 5-20
     volume%, and are suitable for coating of superalloy parts operating in
     high-temperature oxidizing environments. The alloy or composite layer is
     optionally coated with a top layer of ZrO2 or Al and/or Cr, and is
     suitable for thermal barrier service. The typical alloy for powder-spray
     coating 6 mils thick on Mar-M-002 superalloy for gas turbine service
     contains Co 32, Ni 32, Cr 21, Al 8, Y 0.5, and Pt 6 weight%.
     cobalt chromium aluminum yttrium alloy coating; nickel chromium aluminum
ST
     alloy coating; turbine coating chromium aluminum alloy; oxide composite
     chromium alloy coating; thermal barrier chromium alloy composite
IT
     Turbines
        (coatings for; alloy composites with oxide dispersion for coating
        resistant to hot corrosion and oxidation in gas-turbine service)
IT
     Aluminizing
     Chromizing
        (coatings with; alloy composites with oxide dispersion for coating
        resistant to hot corrosion and oxidation in gas-turbine service)
IT
     Coating materials
        (composites; alloy composites with oxide dispersion for coating
        resistant to hot corrosion and oxidation in gas-turbine service)
IT
     Alloys, uses
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        coating as thermal barrier on superalloy parts in gas-turbine service)
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IT
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           7440-06-4, Platinum, uses
                                                                  7440-25-7,
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     Tantalum, uses
                     7440-47-3, Chromium, uses
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     7440-58-6, Hafnium, uses
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        resistant to hot corrosion and oxidation in gas-turbine service)
ΙT
     1314-20-1, Thoria, uses 1314-23-4, Zirconia, uses 1314-36-9, Yttria,
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uses 1344-28-1, Alumina, uses 12055-23-1, Hafnia RL: MOA (Modifier or additive use); USES (Uses) (dispersed; alloy composites with oxide dispersion for coatings resistant to hot corrosion and oxidation in gas-turbine service) ANSWER 2 OF 3 REGISTRY COPYRIGHT 2005 ACS on STN 165102-76-1 REGISTRY Entered STN: 20 Jul 1995 Nickel alloy, base, Ni 6-62, Co 10-40, Cr 15-25, Al 7-14, Ta 3-8, Pt 3-6, Y 0.1-1 (9CI) (CA INDEX NAME) Al . Co . Cr . Ni . Pt . Ta . Y AYS CA CA, CAPLUS, USPATFULL STN Files: DT.CA CAplus document type: Patent Roles from patents: USES (Uses) Component Component Component Percent Registry Number 6 - 62 7440-02-0 Νi 10 - 40 7440-48-4 Co - 25 15 7440-47-3 Cr7 - 14 Αl 7429-90-5 Ta 3 8 7440-25-7 Pt 3 6 7440-06-4 Y 0.1 -1 7440-65-5 1 REFERENCES IN FILE CA (1907 TO DATE) 1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

REFERENCE 1

L7

RN

ED

CN

MF

CI

SR

LC

123:63362 CA AN

Alloys and dispersion composites for coating resistant to hot corrosion TI and oxidation in gas-turbine service

Bettridge, David Frederick; Taylor, Thomas Alan; Tucker, Robert Clark, Jr. IN

Rolls-Royce PLC, UK; Praxair Inc. PΑ

Eur. Pat. Appl., 19 pp. SO

CODEN: EPXXDW

DT Patent

LΑ English

ICM C23C004-06 IC

ICS C23C030-00; C23C004-18

56-3 (Nonferrous Metals and Alloys) Section cross-reference(s): 57

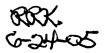
באוז כאודי 1

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PRAI	US	1993-148460	19931	108				

The MCrAlY-type alloys suitable for spray coating (as well as for composites with oxide dispersion) contain M (as Fe, Co, and/or Ni) nominally at 19-83, Cr 10-50, Al 4-14, Y (and optionally Hf) 0.1-3, and optionally addnl. Ta, Re, and/or Pt at 3-14 weight%. The alloys are preferably used as composite with an oxide dispersion (especially Al2O3) at 5-20

volume%, and are suitable for coating of superalloy parts operating in high-temperature oxidizing environments. The alloy or composite layer is optionally coated with a top layer of ZrO2 or Al and/or Cr, and is suitable for thermal barrier service. The typical alloy for powder-spray coating 6 mils thick on Mar-M-002 superalloy for gas turbine service contains Co 32, Ni 32, Cr 21, Al 8, Y 0.5, and Pt 6 weight%. cobalt chromium aluminum yttrium alloy coating; nickel chromium aluminum ST alloy coating; turbine coating chromium aluminum alloy; oxide composite chromium alloy coating; thermal barrier chromium alloy composite IT Turbines (coatings for; alloy composites with oxide dispersion for coating resistant to hot corrosion and oxidation in gas-turbine service) ΙT Aluminizing Chromizing (coatings with; alloy composites with oxide dispersion for coating resistant to hot corrosion and oxidation in gas-turbine service) Coating materials ΙT (composites; alloy composites with oxide dispersion for coating resistant to hot corrosion and oxidation in gas-turbine service) ΙT Alloys, uses RL: TEM (Technical or engineered material use); USES (Uses) (thermal barriers on; alloy composites with oxide dispersion for coating as thermal barrier on superalloy parts in gas-turbine service) 7439-89-6, Iron, uses 7440-02-0, Nickel, ΙT 7429-90-5, Aluminum, uses 7440-06-4, Platinum, uses 7440-15-5, Rhenium, uses Tantalum, uses 7440-47-3, Chromium, uses 7440-48-4, Cobalt, uses 7440-58-6, Hafnium, uses 7440-65-5, Yttrium, uses RL: MOA (Modifier or additive use); USES (Uses) (alloys containing; alloys and dispersion composites for coating resistant to hot corrosion and oxidation in gas-turbine service) IT 61048-41-7 61048-42-8 RL: MOA (Modifier or additive use); USES (Uses) (coatings; alloy composites with oxide dispersion for coatings resistant to hot corrosion and oxidation in gas-turbine service) 165047-07-4 165047-05-2 165047-06-3 IT 165047-03-0 165047-04-1 165047-08-5 165047-09-6 165047-10-9 165047-11-0 165047-12-1 165047-15-4 165047-14-3 165047-16-5 165102-69-2 165047-13-2 165102-73-8 165102-74-9 165102-70-5 165102-71-6 165102-72-7 165102-76-1 165102-77-2 165102-75-0 RL: TEM (Technical or engineered material use); USES (Uses) (coatings; alloy composites with oxide dispersion for coatings resistant to hot corrosion and oxidation in gas-turbine service) 1314-20-1, Thoria, uses 1314-23-4, Zirconia, uses 1314-36-9, Yttria, ΙT 1344-28-1, Alumina, uses 12055-23-1, Hafnia RL: MOA (Modifier or additive use); USES (Uses) (dispersed; alloy composites with oxide dispersion for coatings resistant to hot corrosion and oxidation in gas-turbine service) L7 ANSWER 3 OF 3 REGISTRY COPYRIGHT 2005 ACS on STN RN165102-70-5 REGISTRY EDEntered STN: 20 Jul 1995 Nickel alloy, base, Ni 14-65, Co 10-40, Cr 15-25, Al 7-14, Pt 3-6, Y 0.1-1 CN (9CI) (CA INDEX NAME) MF Al . Co . Cr . Ni . Pt . Y AYS CI SR CA LC STN Files: CA, CAPLUS, USPATFULL DT.CA CAplus document type: Patent RL.P Roles from patents: USES (Uses)

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	· P6	erce	nt	Registry Numbe	r		
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Co	10	-	40	7440-48-4			
Cr	15	-	25	7440-47-3			
Al	7	-	14	7429-90-5			
Pt	3	-	6	7440-06-4			



- 1 REFERENCES IN FILE CA (1907 TO DATE)
- 1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

REFERENCE 1

·Y

123:63362 CA AN

Alloys and dispersion composites for coating resistant to hot corrosion ΤI and oxidation in gas-turbine service

Bettridge, David Frederick; Taylor, Thomas Alan; Tucker, Robert Clark, Jr. IN

Rolls-Royce PLC, UK; Praxair Inc. PA

SO Eur. Pat. Appl., 19 pp.

CODEN: EPXXDW

DT Patent .

English LΑ

IC ICM C23C004-06

ICS C23C030-00; C23C004-18

CC 56-3 (Nonferrous Metals and Alloys) Section cross-reference(s): 57

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PRAI US 1993-148460 19931108

The MCrAlY-type alloys suitable for spray coating (as well as for composites with oxide dispersion) contain M (as Fe, Co, and/or Ni) nominally at 19-83, Cr 10-50, Al 4-14, Y (and optionally Hf) 0.1-3, and optionally addnl. Ta, Re, and/or Pt at 3-14 weight%. The alloys are preferably used as composite with an oxide dispersion (especially Al2O3) at 5-20 volume%, and are suitable for coating of superalloy parts operating in high-temperature oxidizing environments. The alloy or composite layer is optionally coated with a top layer of ZrO2 or Al and/or Cr, and is suitable for thermal barrier service. The typical alloy for powder-spray coating 6 mils thick on Mar-M-002 superalloy for gas turbine service contains Co 32, Ni 32, Cr 21, Al 8, Y 0.5, and Pt 6 weight%.

cobalt chromium aluminum yttrium alloy coating; nickel chromium aluminum ST alloy coating; turbine coating chromium aluminum alloy; oxide composite chromium alloy coating; thermal barrier chromium alloy composite

ΙT Turbines

> (coatings for; alloy composites with oxide dispersion for coating resistant to hot corrosion and oxidation in gas-turbine service)

IT Aluminizing

Chromizing

(coatings with; alloy composites with oxide dispersion for coating resistant to hot corrosion and oxidation in gas-turbine service)

IΤ Coating materials

> (composites; alloy composites with oxide dispersion for coating resistant to hot corrosion and oxidation in gas-turbine service)

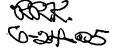
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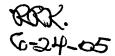
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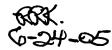


* 7440-58-6, Hafnium, uses 7440-65-5, Yttrium, uses RL: MOA (Modifier or additive use); USES (Uses) (alloys containing; alloys and dispersion composites for coating resistant to hot corrosion and oxidation in gas-turbine service) IT 61048-41-7 61048-42-8 RL: MOA (Modifier or additive use); USES (Uses) (coatings; alloy composites with oxide dispersion for coatings resistant to hot corrosion and oxidation in gas-turbine service) 165047-03-0 165047-04-1 165047-05-2 165047-06-3 165047-07-4 IT 165047-08-5 165047-09-6 165047-10-9 165047-11-0 165047-12-1 165047-15-4 165047-16-5 165102-69-2 165047-13-2 165047-14-3 165102-73-8 165102-74-9 165102-70-5 165102-71-6 165102-72-7 165102-76-1 165102-77-2 165102-75-0 RL: TEM (Technical or engineered material use); USES (Uses) (coatings; alloy composites with oxide dispersion for coatings resistant to hot corrosion and oxidation in gas-turbine service) 1314-20-1, Thoria, uses 1314-23-4, Zirconia, uses 1314-36-9, Yttria, IT 1344-28-1, Alumina, uses 12055-23-1, Hafnia RL: MOA (Modifier or additive use); USES (Uses) (dispersed; alloy composites with oxide dispersion for coatings resistant to hot corrosion and oxidation in gas-turbine service)



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L1 28	(("20020068008") or ("4675204") or ("4808055") or ("4937042") or ("5076897") or ("5374319") or ("5395584") or ("5554837") or ("5622638") or ("5701669") or ("5997248") or ("6149389") or	USPAT; USOCR; EPO; JPO;	OR	OFF	2005/06/24 12:00





Ref #	Hits	Search Query	DBs	Default Operator	Plurals	Time Stamp
<u>U.</u>	28	(("20020068008") or ("4675204") or ("4808055") or ("4937042") or ("5076897") or ("5374319") or ("5395584") or ("5554837") or ("5622638") or ("5701669") or ("5997248") or ("6149389") or ("6221175") or ("6410159")).PN.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2005/06/24 12:02
L2	1859	(420/437 or 420/440 or 420/444 or 420/445 or 420/456 or 420/460 or 420/588 or 148/425 or 148/428).ccls.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2005/06/24 12:05
13	175	2 and (nickel or ni) and cobalt and (aluminum or aluminium or al) and yttrium and (chromium or cr) and (platinum or pt or hafnium or hf or silicon or si or zirconium or zr or tantalum or ta or rhenium or re or ruthenium or ru)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2005/06/24 12:07
L4	95	3 and turbine SAME (blade or blades)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2005/06/24 12:08
L5	77	4 and (coating or coatings or layer or layers)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2005/06/24 12:09
L6	6	5 and platinum and hafnium and silicon and zirconium and tantalum and rhenium and ruthenium	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2005/06/24 12:19
L7	11	4 and blade WITH tip	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2005/06/24 12:32
L8	5535	(428/678 or 428/636 or 428/637 or 428/926 or 428/934 or 427/596 or 427/597 or 427/405 or 416/241).ccls.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2005/06/24 12:34



4 20	,					
L9	793	8 and (platinum or pt)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2005/06/24 12:35
L10	0	9 and (nickel or ni) and cobalt and (chromium or cr) and (aluminum or aluminium or al) and (silicon or si) and yttrium and (hafnium or hf or zirconium or zr or tantalum or ta or rhenium or re or ruthenium or ru).ccls.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2005/06/24 12:38
L11	0	8 and 10	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2005/06/24 12:38
L12	106	9 and mcraly	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2005/06/24 12:39
L13	62	12 and (nickel or ni) and cobalt and yttrium and (aluminum or aluminium or al) and (chromium or cr)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2005/06/24 12:39
L14	1	13 and blade WITH tip	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2005/06/24 12:46

G-24-05	FREE	7
	6-2	4-05

Ref #	Hits	Search Query	DBs	Default Operator	Plurals	Time Stamp
L1.			US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT:	OR		2005/06/24 16:45
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